SEQUENCE LISTING

<110> Schweitzer, Markus
Anderson, Richard R.
Mueller, Jochen
Fiechtner, Michael
Bruecher, Christoph
Kienle, Stefan
Orwick, Jill
Pignot, Marc
Raddatz, Stefan
Schneider, Eberhard
Windhab, Norbert

<120> Sorting and Immobilization System for Nucleic Acids Using Synthetic Binding Systems

<130> 264/217 Nanogen Recognomics

<160> 184

<170> PatentIn version 3.1

<210> 1
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 1
aatgccta 8

<210> 2
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 2
taggcatt 8

<210> 3
<211> 8
<212> DNA
<213> Artificial sequence

<220>

<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 3
aatcgcta 8

<210> 4
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 4
tagcgatt 8

<210> 5
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 5
aagtccta 8

<210> 6
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 6
taggactt 8

<210> 7
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 7
aatgtcca 8

<210> 8
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 8
tggacatt 8

<210> 9
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 9
aatccgta 8

<210> 10
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base

<222> (1)..(8)
<223> pyranosyl RNA

<400> 10
tacggatt 8

<210> 11
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 11
aattcgca 8

<210> 12
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 12
tgcgaatt 8

<210> 13
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 13
aacgttca 8

<210> 14
<211> 8
<212> DNA

<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 14
tgaacgtt 8

<210> 15
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 15
agtactca 8

<210> 16
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 16
tgagtact 8

<210> 17
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 17
aatctcga 8

<210> 18
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 18
tcgagatt 8

<210> 19
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 19
aagctcta 8

<210> 20
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 20
tagagctt 8

<210> 21
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 21
actagcta 8

<210> 22
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 22
tagctagt 8

<210> 23
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 23
aagttcca 8

<210> 24
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 24
tggaactt 8

<210> 25
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 25
aagcctta 8

<210> 26
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 26
taaggctt 8

<210> 27
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 27
atgaccta 8

<210> 28
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)

<223> pyranosyl RNA

<400> 28
taggtcat 8

<210> 29
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 29
aacgctta 8

<210> 30
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 30
taagcgtt 8

<210> 31
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 31
actgacta 8

<210> 32
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 32
tagtcagt 8

<210> 33
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 33
aattgcca 8

<210> 34
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 34
tggcaatt 8

<210> 35
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 35

aaccgtta 8

<210> 36
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 36
taacggtt 8

<210> 37
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 37
agtcacta 8

<210> 38
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 38
tagtgact 8

<210> 39
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 39
aactgcta 8

<210> 40
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 40
tagcagtt 8

<210> 41
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 41
ctggcata 8

<210> 42
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 42
tatgccag 8

<210> 43

<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 43
ccagtcta 8

<210> 44
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 44
tagactgg 8

<210> 45
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 45
aatgcgta 8

<210> 46
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 46
tacgcatt 8

<210> 47
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 47
aatcctag 8

<210> 48
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 48
ctaggatt 8

<210> 49
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 49
tcctgcattc 10

<210> 50
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 50
gaatgcagga 10

<210> 51
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 51
ctctacgtct 10

<210> 52
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 52
agacgtagag 10

<210> 53
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 53
cctcgtactt 10

<210> 54
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 54
aagtacgagg 10

<210> 55
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 55
ttctgtatcc 10

<210> 56
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 56
ggatacagaa 10

<210> 57
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>

<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 57
ctttatgcct 10

<210> 58
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 58
aggcataaag 10

<210> 59
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 59
cccacttgtt 10

<210> 60
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 60
aacaagtggg 10

<210> 61
<211> 10

<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 61
tctgctcatc 10

<210> 62
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 62
gatgagcaga 10

<210> 63
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 63
ctcacctatt 10

<210> 64
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 64
aataggtgag 10

<210> 65
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 65
ttctatactc 10

<210> 66
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 66
gagtatagaa 10

<210> 67
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 67
tgtttgggtg 10

<210> 68
<211> 10
<212> DNA
<213> Artificial sequence

<220>

<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 68
cacccaaaca 10

<210> 69
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 69
tggtcggttg 10

<210> 70
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 70
caaccgacca 10

<210> 71
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 71
tggttatctg 10

<210> 72
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 72
cagataacca 10

<210> 73
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 73
cgtgtatgta 10

<210> 74
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 74
tacatacacg 10

<210> 75
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base

<222> (1)..(10)
<223> pyranosyl RNA

<400> 75
ctccatgttc 10

<210> 76
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 76
gaacatggag 10

<210> 77
<211> 31
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 77
tcctgcattc gcatagaggc agaataacag g 31

<210> 78
<211> 31
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 78
ctctacgtct gcatagaggc agaataacag g 31

<210> 79
<211> 31
<212> DNA

<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 79
cctcgtactt gcatagaggc agaataacag g 31

<210> 80
<211> 34
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223>

<400> 80
tcctgcattc agaaatctca catggacatc ttca 34

<210> 81
<211> 32
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 81
tcctgcattc cctgggcttt gcagcacttc tc 32

<210> 82
<211> 22
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (13)..(22)
<223> pyranosyl RNA

<400> 82
ccccagtgct ggtcctgcat tc 22

<210> 83
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (31)..(40)
<223> pyranosyl RNA

<400> 83
atgctaaagg acgtcattgc acaatcttaa ctctacgtct 40

<210> 84
<211> 33
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (24)..(33)
<223> pyranosyl RNA

<400> 84
ggagtttgta catgcggtgg agccctcgta ctt 33

<210> 85
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> 2'-O-methyl RNA

<220>
<221> modified_base
<222> (2)..(8)
<223> pyranosyl RNA

<400> 85
ctaggatt 8

<210> 86

<211> 31
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (22)..(31)
<223> pyranosyl RNA

<400> 86
ggacaataag acggagatac gcctcgtact t 31

<210> 87
<211> 13
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (13)..(13)
<223> RNA

<400> 87
ccccagtgct ggu 14

<210> 88
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (8)..(8)
<223> CY3 dye

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Hydrazide functional group

<400> 88
ttacggat 8

<210> 89
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (12)..(12)
<223> Glyceryl moiety

<400> 89
ccccagtgct gg 12

<210> 90
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Hydrazide functional group

<220>
<221> modified_base
<222> (8)..(8)
<223> Cy3 dye

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 90
taggcatt 8

<210> 91
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 91
ccccagtgct gg 12

<210> 92
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Biotin moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 92
gaatgcagga 10

<210> 93
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Biotin moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 93
agacgtagag 10

<210> 94
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Biotin moiety

<220>
<221> modified_base
<222> (1)..(8)
<223> pyranosyl RNA

<400> 94

aagtacgagg 10

<210> 95
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Tetra-hydrazide moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 95
gaatgcagga 10

<210> 96
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Tetra-hydrazide moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 96
agacgtagag 10

<210> 97
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Tetra-hydrazide moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 97
aagtacgagg 10

<210> 98
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Biotin moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 98
gaatgcagga 10

<210> 99
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Biotin moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 99
agacgtagag 10

<210> 100
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Biotin moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 100
aagtacgagg 10

<210> 101
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Biotin moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 101
aggcataaag 10

<210> 102
<211> 10
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(1)
<223> Biotin moiety

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 102
aacaagtggg 10

<210> 103
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 103
ctcaactgac atatagcatt gggcatcctg cattc 35

<210> 104
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (31)..(40)
<223> pyranosyl RNA

<400> 104
accctcactt caagactaag attgaaggta ctctacgtct 40

<210> 105
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 105
acccggttgt agtagttgca ggcaccctcg tactt 35

<210> 106
<211> 38
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (29)..(38)

<223> pyranosyl RNA

<400> 106
acaacaattt gaagcttctg taattttgct ttatgcct 38

<210> 107
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 107
tgtcagcctt gctacttgaa ggtaccccac ttgtt 35

<210> 108
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 108
cccctgtagg ttgcttaaaa gggactctgc tcatc 35

<210> 109
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 109
gcatggatgg cagcattgtt ctgaattcta tactc 35

<210> 110
<211> 37
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (28)..(37)
<223> pyranosyl RNA

<400> 110
gaggttcaag cgtaaataag tatattttgg tcggttg 37

<210> 111
<211> 38
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (29)..(38)
<223> pyranosyl RNA

<400> 111
cttctttcag tgggagggaa ctattgagtg gttatctg 38

<210> 112
<211> 42
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (33)..(42)
<223> pyranosyl RNA

<400> 112
acatttatta ttattattat tattattatt tgctccatgt tc 42

<210> 113
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (35)..(35)
<223> Cy3 dye

<220>

<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 113
ctcaactgac atatagcatt gggcatcctg cattc 35

<210> 114
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (40)..(40)
<223> Cy3 dye

<220>
<221> modified_base
<222> (31)..(40)
<223> pyranosyl RNA

<400> 114
accctcactt caagactaag attgaaggta ctctacgtct 40

<210> 115
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (35)..(35)
<223> Cy3 dye

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 115
acccggttgt agtagttgca ggcaccctcg tactt 35

<210> 116
<211> 38
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (38)..(38)
<223> Cy3 dye

<220>
<221> modified_base
<222> (29)..(38)
<223> pyranosyl RNA

<400> 116
acaacaattt gaagcttctg taattttgct ttatgcct 38

<210> 117
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (35)..(35)
<223> Cy3 dye

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 117
tgtcagcctt gctacttgaa ggtaccccac ttgtt 35

<210> 118
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (35)..(35)
<223> Cy3 dye

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 118
cccctgtagg ttgcttaaaa gggactctgc tcatc 35

<210> 119

<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (35)..(35)
<223> Cy3 dye

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 119
gcatggatgg cagcattgtt ctgaattcta tactc 35

<210> 120
<211> 37
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (37)..(37)
<223> Cy3 dye

<220>
<221> modified_base
<222> (28)..(37)
<223> pyranosyl RNA

<400> 120
gaggttcaag cgtaaataag tatattttgg tcggttg 37

<210> 121
<211> 38
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (38)..(38)
<223> Cy3 dye

<220>
<221> modified_base
<222> (29)..(38)
<223> pyranosyl RNA

<400> 121
cttctttcag tgggagggaa ctattgagtg gttatctg 38

<210> 122
<211> 42
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (42)..(42)
<223> Cy3 dye

<220>
<221> modified_base
<222> (33)..(42)
<223> pyranosyl RNA

<400> 122
acatttatta ttattattat tattattatt tgctccatgt tc 42

<210> 123
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 123
tgcccaatgc tatatgtcag ttgag 25

<210> 124
<211> 30
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 124
taccttcaat cttagtcttg aagtgagggt 30

<210> 125
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 125
gtgcctgcaa ctactacaac cgggt 25

<210> 126
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 126
caaaattaca gaagcttcaa attgttgt 28

<210> 127
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 127
gtaccttcaa gtagcaaggc tgaca 25

<210> 128
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base

<222> (1)..(1)
<223> Cy5 dye

<400> 128
gtccctttta agcaacctac agggg 25

<210> 129
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 129
ttcagaacaa tgctgccatc catgc 25

<210> 130
<211> 27
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 130
aaatatactt atttacgctt gaacctc 27

<210> 131
<211> 27
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 131
ctcaatagtt ccctcccact gaaagaa 27

<210> 132
<211> 32
<212> DNA

<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 132
caaataataa taataataat aataataaat gt 32

<210> 133
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 133
ctcaactgac atatagcatt gggcatcctg cattc 35

<210> 134
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (31)..(40)
<223> pyranosyl RNA

<400> 134
accctcactt caagactaag attgaaggta ctctacgtct 40

<210> 135
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 135
acccggttgt agtagttgca ggcaccctcg tactt 35

<210> 136
<211> 38
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (29)..(38)
<223> pyranosyl RNA

<400> 136
acaacaattt gaagcttctg taattttgct ttatgcct 38

<210> 137
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 137
tgtcagcctt gctacttgaa ggtaccccac ttgtt 35

<210> 138
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 138
cccctgtagg ttgcttaaaa gggactctgc tcatc 35

<210> 139
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (26)..(35)
<223> pyranosyl RNA

<400> 139
gcatggatgg cagcattgtt ctgaattcta tactc 35

<210> 140
<211> 37
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (28)..(37)
<223> pyranosyl RNA

<400> 140
gaggttcaag cgtaaataag tatattttgg tcggttg 37

<210> 141
<211> 38
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (29)..(38)
<223> pyranosyl RNA

<400> 141
cttctttcag tgggagggaa ctattgagtg gttatctg 38

<210> 142
<211> 42
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (33)..(42)
<223> pyranosyl RNA

<400> 142
acatttatta ttattattat tattattatt tgctccatgt tc 42

<210> 143
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 143
tgcccaatgc tatatgtcag ttgag 25

<210> 144
<211> 30
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 144
taccttcaat cttagtcttg aagtgagggt 30

<210> 145
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 145
gtgcctgcaa ctactacaac cgggt 25

<210> 146
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 146
caaaattaca gaagcttcaa attgttgt 28

<210> 147
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 147
gtaccttcaa gtagcaaggc tgaca 25

<210> 148
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 148
gtccctttta agcaacctac agggg 25

<210> 149
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 149
ttcagaacaa tgctgccatc catgc 25

<210> 150
<211> 27
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 150
aaatatactt atttacgctt gaacctc 27

<210> 151
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 151
ctcaatagtt ccctcccact gaaagaag 28

<210> 152
<211> 32
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 152
caaataataa taataataat aataataaat gt 32

<210> 153
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base

<222> (25)..(25)
<223> Cy3 dye

<400> 153
tgcccaatgc tatatgtcag ttgag 25

<210> 154
<211> 30
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (30)..(30)
<223> Cy3 dye

<400> 154
taccttcaat cttagtcttg aagtgagggt 30

<210> 155
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (25)..(25)
<223> Cy3 dye

<400> 155
gtgcctgcaa ctactacaac cgggt 25

<210> 156
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (28)..(28)
<223> Cy3 dye

<400> 156
caaaattaca gaagcttcaa attgttgt 28

<210> 157
<211> 25
<212> DNA

<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (25)..(25)
<223> Cy3 dye

<400> 157
gtaccttcaa gtagcaaggc tgaca 25

<210> 158
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (25)..(25)
<223> Cy3 dye

<400> 158
gtccctttta agcaacctac agggg 25

<210> 159
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (25)..(25)
<223> Cy3 dye

<400> 159
ttcagaacaa tgctgccatc catgc 25

<210> 160
<211> 27
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (27)..(27)
<223> Cy3 dye

<400> 160
aaatatactt atttacgctt gaacctc 27

<210> 161
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (28)..(28)
<223> Cy3 dye

<400> 161
ctcaatagtt ccctcccact gaaagaag 28

<210> 162
<211> 32
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (32)..(32)
<223> Cy3 dye

<400> 162
caaataataa taataataat aataataaat gt 32

<210> 163
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 163
tgcccaatgc tatatgtcag ttgag 25

<210> 164
<211> 30
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 164
taccttcaat cttagtcttg aagtgagggt 30

<210> 165
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 165
gtgcctgcaa ctactacaac cgggt 25

<210> 166
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 166
caaaattaca gaagcttcaa attgttgt 28

<210> 167
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 167
gtaccttcaa gtagcaaggc tgaca 25

<210> 168
<211> 25
<212> DNA
<213> Artificial sequence

<220>

<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 168
gtccctttta agcaacctac agggg 25

<210> 169
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 169
ttcagaacaa tgctgccatc catgc 25

<210> 170
<211> 27
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 170
aaatatactt atttacgctt gaacctc 27

<210> 171
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 171
ctcaatagtt ccctcccact gaaagaag 28

<210> 172
<211> 34
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 172
tcctgcattc agaaatctca catggacatc ttca 34

<210> 173
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 173
gtctgtttca cagaagaggg tccaa 25

<210> 174
<211> 32
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system

<220>
<221> modified_base
<222> (1)..(10)
<223> pyranosyl RNA

<400> 174
tcctgcattc cctgggcttt gcagcacttc tc 32

<210> 175
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 175
gatctgtgcc aagctcaggg caaag 25

<210> 176
<211> 2009
<212> DNA
<213> Mus musculus

<220>
<221> gene
<222> (1)..(2009)
<223> Alpha-fetoprotein

<400> 176
tcccacttcc agcactgcct gcggtgaagg aacaagcagc catgaagtgg atcacacccg 60
cttccctcat cctcctgcta catttcgctg cgtccaaagc attgcacgaa aatgagtttg 120
ggatagcttc cacgttagat tcctcccagt gcgtgacgga gaagaatgtg cttagcatag 180
ctaccatcac ctttacccag tttgttccgg aagccaccga ggaggaagtg aacaaaatga 240
ctagcgatgt gttggctgca atgaagaaaa actctggcga tgggtgttta gaaagccagc 300
tatctgtgtt tctggatgaa atttgccatg agacggaact ctctaacaag tatggactct 360
caggctgctg cagccaaagt ggagtggaaa gacatcagtg tctgctggca cgcaagaaga 420
ctgctccggc ctctgtccca cccttccagt ttccagaacc tgccgagagt tgcaaagcac 480
atgaagaaaa cagggcagtg ttcatgaaca ggttcatcta tgaagtgtca aggaggaacc 540
ccttcatgta tgccccagcc attctgtcct tggctgctca gtacgacaag gtcgttctgg 600
catgctgcaa agctgacaac aaggaggagt gcttccagac aaagagagca tccattgcaa 660
aggaattaag agaaggaagc atgttaaatg agcatgtatg ttcagtgata agaaaatttg 720
gatcccgaaa cctccaggca acaaccatta ttaagctaag tcaaaagtta actgaagcaa 780
attttactga gattcagaag ctggccctgg atgtggctca catccacgag gagtgttgcc 840
aaggaaactc gctggagtgt ctgcaggatg gggaaaaagt catgacatat atatgttctc 900
aacaaaatat tctgtcaagc aaaatagcag agtgctgcaa attacccatg atccaactag 960
gcttctgcat aattcacgca gagaatggcg tcaaacctga aggcttatct ctaaatccaa 1020
gccagttttt gggagacaga aattttgccc aattttcttc agaggaaaaa atcatgttca 1080
tggcaagctt tcttcatgaa tactcaagaa ctcaccccaa ccttcctgtc tcagtcattc 1140
taagaattgc taaaacgtac caggaaatat tggagaagtg ttcccagtct ggaaatctac 1200
ctggatgtca ggacaatctg gaagaagaat tgcagaaaca catcgaggag agccaggcac 1260
tgtccaagca aagctgcgct ctctaccaga ccttaggaga ctacaaatta caaaatctgt 1320
tccttattgg ttacacgagg aaagcccctc agctgacctc agcagagctg atcgacctca 1380
ccgggaagat ggtgagcatt gcctccacgt gctgccagct cagcgaggag aaatggtccg 1440
gctgtggtga gggaatggcc gacattttca ttggacattt gtgtataagg aatgaagcaa 1500
gccctgtgaa ctctggtatc agccactgct gcaactcttc gtattccaac aggaggctat 1560
gcatcaccag ttttctgagg gatgaaacct atgcccctcc cccattctct gaggataaat 1620
tcatcttcca caaggatctg tgccaagctc agggcaaagc cctacagacc atgaaacaag 1680
agcttctcat taacctggtg aagcaaaagc ctgaactgac agaggagcag ctggcggctg 1740

tcactgcaga tttctcgggc cttttggaga agtgctgcaa agcccaggac caggaagtct 1800

gtttcacaga agagggtcca aagttgattt ccaaaactcg tgatgctttg ggcgtttaaa 1860

catctccaga aggaagagtg gacaaaaaaa tgtgttgacg ctttggtgtg agccttttgg 1920

cttaactgta actgctagta ctttaaccac atggtgaaga tgtccatgtg agatttctat 1980

accttaggaa taaaaacttt tcaactatt 2009

<210> 177
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 177
taatacgact cactataggg 20

<210> 178
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 178
tggggctaag cgggatcg 18

<210> 179
<211> 113
<212> DNA
<213> Artificial sequence

<220>
<223> Test nucleic acid sequence

<400> 179
gctgcagtaa tacgactcac tataggggct atagctcagc tgggagagcg cttgcctggg 60

aagcaagagg tcagcggttc gatcccgctt agccccaccg cggcgtccat cca 113

<210> 180
<211> 67
<212> DNA
<213> Artificial sequence

<220>
<223> Test WT nucleic acid sequence

<400> 180
ggcgttttgc aaacatacct tcaatcttag tcttgaagtg agggtgtctg ttgagaatct 60

ccacctg 67

<210> 181
<211> 67

<212> DNA
<213> Artificial sequence

<220>
<223> Test mutant nucleic acid sequence

<400> 181
ggcgttttgc aaacatacct tcaatcttag tcttgaagtg agggtatctg ttgagaatct 60

ccacctg 67

<210> 182
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic binding system
<220>
<221> modified_base
<222> (31)..(40)
<223> pyranosyl RNA

<400> 182
accctcactt caagactaag attgaaggta tcctgcattc 40

<210> 183
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Test WT rept. nucleic acid sequence
<220>
<221> modified_base
<222> (1)..(1)
<223> Cy3 dye

<400> 183
tctcaacaga c 11

<210> 184
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Test mut. rept. nucleic acid sequence
<220>
<221> modified_base
<222> (1)..(1)
<223> Cy5 dye

<400> 184
tctcaacaga t 11